ATTACHMENT TO:	25X1
MEMORANDUM FOR: Chief, Technical Services Group, NPIC	
ATTENTION : Chief, Technical Operations Staff, TSG/NPIC	
SUBJECT : Monthly Report for September 1972	
A. SIGNIFICANT ITEMS OF INTEREST FOR SEPTEMBER 1972:	
1. Scan & Search PI Station - SSPIS - The SSPIS was	25X1
installed in the IEG area. ESD performed tests to insure that the	ur.
instrument was operating properly and IEG started the operational	
suitability tests on 27 September 1972.	
2. Automatic Focus Breadboard, Phase II The fabrica- 2	25X1
tion and assembly of the basic breadboard (with film and carriage	
drives, microscope bridge, and airgate) is nearing completion. In	
October, the final will be added and each	25X1
subsystem tested for operation. Data collection is scheduled	
through November and the project will be completed in January 1973.	
3. Binocular Magnifier Following approval of the 2	25X1
final optical design on 31 August 1972, all the glass for this	
instrument was ordered. All mechanical design work was completed	
in September. Computer analysis indicates optical resolutions	
well in excess of the original development objectives. The	
predicted delivery of this instrument is December 1972.	
NRO review(s) completed. Declass Review by NIMA/DOD	25X1
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	4. Dry Silver Negative Acting Film Verbal reports, on	25X1
25X1	tests performed on negative acting material Lot 62,	
	indicate that the resolution and reproduction qualities compared	
25X1	favorably A formal report on the tests will be avail-	
	able early in October. Lot 64 is presently undergoing tests at	
	Westover. Preliminary tests indicate that this lot is considerably	, e
	better than Lot 62.	•
25X1	5. Enlarger-Viewer-Printer ESD resumed the acceptance	
,	tests on this device last week of September. Work has been held	
	up since the end of June while the ESD test engineer completed tests	
	on the SSPIS.	
25X1	6. Mapholder The production prototype mapholder	
	was delivered. Several possible improvements were noted and they	
25X1	will be reviewed by the contractor prior to the production run.	
25X1 25X1	7. DIA Light Table DI-8 has completed the opera-	
	tional evaluation of the DIA version of the light table	25X1
	and found the table acceptable. The table has been transferred	
	to ESD for tests relating to technical specifications.	
	8. Mensuration Parameters File Storage Study An	25X1
	interim briefing was presented to NPIC on the alter-	25X1
	native of printing MPF data as a data block on each piece of film.	
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	The conclusion about this alternative is that data block is feasible	
. •	but not cost effective for the anticipated usage. High density	
	discs appear (at this stage of study) to be the most cost effective	•
	storage media.	
	9. Ground Coverage Display Phase II of this	25X1
	study has been delayed by an in-house analysis of the Phase I	
	results. It is expected that work will be initiated on the Phase II	<b>25</b> X1
	analysis during October.	
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	In order to resolve this uncertainty, attempts are being made to	
ta e	obtain some sample imagery from the prototype for comparison	25X <sup>2</sup>
	with our simulations.	
25X1		
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		,e
25X1	13. CRT Study This project, although approved	
25X1	by NPIC management, was not accepted at higher levels. An overture	
	was made to ORD to consider this area of investigation.	051/
	14. Color Simulation Photography  The production work	25X <sup>2</sup>
	on the final set of photography has begunimmediate project appli-	
	cations for this imagery will be in the Color Difference Program	
	and the Colorimetric Image Correction Program. The photography will	
25X1	simulate color balances under 3 different haze conditions.	
	A set of comparison black and white photos will also be taken.	
	15. Color Equipment Investigation Program Delivery	25X <sup>2</sup>
	of the automatic color densitometer will be delayed due to a ran-	
	domly occuring malfunction. Delivery is now expected by late October.	
	16. Diagnostic Computer Program Efforts to	25X <sup>2</sup>
	obtain special grids on standard 4 mil base for	25X
		25X <sup>2</sup>

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•	use on the calibration program were unsuccessful. It	25X1
	will be another month before they are available. Unfogged, pro-	20/(1
25X1	cessed 4 mil base was used instead, with imperfections in	
	the film being used for measurement points. The result was a	
	reduction in the variation of 10-20 micrometers seen previously	
	with a 7 mil base graphic arts film to a variation on the new film	
	of 2-3 micrometers. It is interesting to	
	5 mil base film in determining the air flow for film cooling. The	25X1
	difference may be a result of unequal cooling of the thicker base	
•	film.	
	17. TID Engineering Support Work was stopped or pro	05)/4
	The scopped on pro-	25X1
	cessing film for image quality because of a broken gear in the TID's	
	film transport. The gear was replaced as were cooling fan and power connectors. The southwest	
	connectors. The equipment was out of commission for five days	
٠	during repair, was placed back on line on 18 September and on	
	21 September it was moved to its new location in 2N-147.  18. Imagery Interpretation P	
	The Program	25X1
	a. The contractor has provided RED a new set of Color	
	Stereo Acuity Test materials which will be used in a series of	
	planned in-house vision research projects. The stimuli are	
	suitable for use on microstereoscopes.	
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The FY-73 IIRP proposal was evaluated during the reporting period; the Project Approval Request is scheduled to move forward during the first week in October.

- c. A no-cost, time-only extension has been approved for the FY-72 IIRP in order to complete work on the Search Improvement Program and the evaluation of the Scan and Search PI Station. The PI's who will participate in the operational evaluation of the Scan and Search PI Station received training in the proper use of this new instrument.
- The final report on the evaluation of an IEG SALT Rating Scale is nearing completion, with delivery to RED planned for early October.
- Computer statistical analysis on the preliminary PI Search Test was completed and the actual search test was constructed. The finished test is now awaiting use in evaluating the PI Search Course which is scheduled to be given in October.
- RED/SIS and OMS/PSS personnel held several f. meetings with representatives from the Color Evaluation Working Group to design a research effort to compare B/W and color photography as related to search. This program, scheduled to

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begin early next year, is a follow-on to a current study comparing B/W and color photography for specific target readout applications.

- g. Testing and search training was conducted for 20 PI's during the week of 21 thru 25 September. Results of Test/Training were packaged and air shipped for evaluation on Monday, 28 September.
- 19. Narrowband Color Viewer. A proposed follow-on evaluation of the Narrowband Color Viewer was approved by Chief, TSG. The program will run several months commencing in early October. It is specifically designed to assist TSG management in structuring the future course of R&D in the narrowband illumination concept.
- 20. NPIC Equipment Summary. RED's assistance in the compiling of the 1973 edition of the Equipment Summary has been completed.

  Proofing of the typeset copy still remains to be done.
- ject was carried out by RB personnel. Over 500 measurements were made on 1200 feet of original negative ultra-thin-base film to an accuracy of 10 millionths of an inch. Results were provided to APSD.
- B. MEETINGS, BRIEFINGS, ETC.
  - 1. R&D and Center Problems. An RED planning meeting convened

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;	during the period 11-15 September to address R&D and NPIC problems.	i i
· · · · · · · · · · · · · · · · · · ·	Meeting was chaired by SIS and otto address R&D and NPIC problems.	
	Meeting was chaired by SIS and attended by selected RED personnel.  2. Holography Research.	05)//
- 1		25X1
· Property of the control of the con	20-minute movie on Holography Applications in the Blue Room on	
	3 Expansion interested personnel attended.	
	3. EXRAND Briefings. Briefings were presented to EXRAND on the following projects:	
	projects:	. •
25X1	a. Autocord	
25X1	b. CRT Evaluation	
25X1	4. Silver Recovery. attended a meeting at DIA on	
	The assistant to the pop go.	
	outlined a number of problems in recovery of silver from waste film.	
	The companies with film base recovery methods do not now have the	
	necessary capacity to handle large .	
	necessary capacity to handle large volumes of film so contracts have	
25X1	been let to incinerate film for recovery of silver in the ash.  Color Scanner.  Visited Cons.	
25X1	design review a series of the initial	
25X1	for color swalls	25X1
	quality control. This device appears to 1	
	Transacton at NPIC.	
•	6. Image Processing Seminar. attended an image	25X1
	processing tutorial by	25X1
		25X1
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on 14 September. A tour through the Naval Intel-	
ligence Support Center's (NISC's) new image processing facility	
followed.	
C. D.O.'s, PROPOSALS, AND PARS	
1. Image Translator System. Development objectives for opera-	
tion and maintenance manuals for the Image Translator System and	, e
the Target Indexing Device were completed and routed for	25X1
comments.	
2. Technical Parameters for a Closed Circuit TV System. Develop-	
ment objectives were prepared, approved, and are soon to be released.	
3. Feasibility Study for VHR Stereoscope. Development objectives	
are being compiled.	
4. Optical Equipment Test Kit Model II. A proposal has been	
25X1 received and is under consideration.	
5. TID Frame Reader Improvement. A proposal has been received	
25X1	
6. Approved Projects.	
a. Air Bearing Objective	25X1
b. Dry Silver Enlarging Paper	25X1
c. Interactive Viewer Change-in-Scope	25X1
25X1 d. Relocation of SSPIS	
	25X1
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	Total September 1372	
	D. PERSONNEL	
25X1		
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	E. SIGNIFICANT ITEMS FOR OCTOBER:	
·	The high speed microdensitometer and digital image console are	25)
		25)
	The high speed microdensitometer and digital image console are	25)
	The high speed microdensitometer and digital image console are	25)
	The high speed microdensitometer and digital image console are scheduled to undergo initial debugging and testing next month.  Deputy Chief	25)
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